In yet another aspect of the present invention, a computer-readable media embodying a program of instructions executable by a computer performs a method of processing signals, the method including exchanging voice signals between a network line and a packet based network, and simultaneously exchanging data signals from the network line with demodulated data signals from the packet based network.

A1

Page 5, line 12, delete "dtect" and insert -- detect --.

Page 14, line 20, after "echos" insert -- that might otherwise be transmitted back to the far end user --.

A2

Page 15, line 28, delete "voice".

Page 20, line 6, delete "inter-digit".

Page 28, line 2, delete ",".

Page 31, line 14, after "VHD" insert -- via the switchboard 32'" --.

Page 32, line 11, delete "short" and insert -- long --, delete "The input of the peak" and insert -- Peak --, after "tracker" insert -- inputs include the current - -, and delete "is the".

line 12, delete "short" first occurrence and insert -- long –, after "level" delete "(a)" and insert -- a(i) --, delete "short" second occurrence and insert -- long --, and after "estimate" insert -- a(i-1) --.

line 13, after "output" insert -- y(i-1) --, delete "(x), and delete "short" and insert -- long --.

line 14, delete "short" first occurrence and insert -- long --, after "term" insert -- power --, and delete "short" second occurrence and insert -- long --.

line 18, delete "short" and insert -- long --, and delete "current" and insert -- previous - -.

line 19, after "case" delete -- t -- and insert "the current", and after "output" insert -- x(i) --.

line 22, delete "x = (7x +a)/8." and insert -- x(i) = (7x(i - 1) + a(i))/8.--

after line 22, and before line 23, insert "where x(i - 1) is the previous peak tracker output and a(i) is the current long term power estimate.

A3

line 23, delete "short" and insert -- long –, and after "the" insert -- previous --.

line 24, after "the" insert -- current --, and after "tracker" insert output x(i).

line 26, delete "x = x * 255/256" and insert -- x(i) = x(i - 1) * 255/256.

line 29, delete "166" and insert -- 162 --.

Page 36, line 4, delete "are";

line 23, delete "." and insert -- , -- and after "function" insert -- of --.

Page 48, line 8, after "to" insert -- handle -- and delete "switch between" and insert - - switched - -.

Page 51, line 23, after "case," insert -- the inputs to the lost frame recovery engine are - -.

A4

line 24, second occurrence delete "is".

Page 52, line 21, delete "R" and insert - - autocorrelation - -.

Page 53, line 12, delete "R" and insert - - autocorrelation - -.

Page 54, line 18, delete "equation".

Page 56, line 26, after "65536." insert -- Knuth, D. "The Art of Computer Programming, Volume 2, Seminumerical Algorithms," Addison-Wesley, 1969. - -.

Page 60, line 20, delete "e(-j2πfmid)" and insert -- $e^{(-j2\pi fmid)}$ --.

Page 63, line 9, delete "progress tone" and insert - - Progress Tone - -.

Page 68, line 31-page 69, line 7, delete "In one embodiment, the resource manager can be implemented to reduce complexity when the worst case system loading exceeds the peak system resources. The worst case system loading is simply the sum of the worst case (peak) loading of each service invoked by the network VHD and its associated PXDs. However, the statistical nature of the processor resources required to process voice band telephony signals is such that it is extremely unlikely that the worst case processor loading for each PXD and/or service will occur simultaneously. Thus, a more robust (lower overall power consumption and higher densities, i.e. more channels per DSP) signal processing system may be realized if the average complexity of the various voice mode PXDs and associated services is minimized. Therefore, in the described exemplary embodiment, average system complexity is reduced and system resources may be over subscribed (peak loading exceeds peak system resources) in the short term wherein complexity reductions are invoked to reduce the peak loading placed on the system." and insert -- The resource manager can be implemented to reduce complexity when the worst case system loading exceeds the peak system resources. The worst case system loading is simply the sum of the worst case (peak) loading of each service invoked by the network VHD and its associated PXDs.

The statistical nature of the processor resources required to process voice band telephony signals is such that it is extremely unlikely that the worst case processor loading

for each PXD and/or service will occur simultaneously. Thus, a more robust (lower overall power consumption and higher densities, i.e. more channels per DSP) signal processing system may be realized if the average complexity of the various voice mode PXDs and associated services is minimized. In the described exemplary embodiment, average system complexity is reduced and system resources may be over subscribed (peak loading exceeds peak system resources) in the short term wherein complexity reductions are invoked to reduce the peak loading placed on the system.

Page 70, lines 12-17, delete

" $$X(L) = \frac{\left(\sum_{n=0}^{N-1} (d(n)(dn-L))\right)^2}{\left(\sum_{n=o}^{N-1} d(n)^2\right)\left(\sum_{n=0}^{N-1} d(n-L)^2\right)}$$ " and insert

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$$X(L) = \frac{\left(\sum_{n=0}^{N-1} (d(n)(d(n-L))\right)^2}{\left(\sum_{n=o}^{N-1} d(n)^2\right)\left(\sum_{n=0}^{N-1} d(n-L)^2\right)}$$

Page 70, line 35, delete "of" and insert -- if --.

Page 71, line 2, after "1" delete - -) - -; and after "0.5" insert ") ".

line 19, delete "encoder" second occurrence and insert - - decoder - -.

line 33, delete "complesxity" and insert -- complexity - -.

Page 73, line 13, delete "contained within" and insert - - obtained from -- .